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Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=11; day=7; hr=16; min=8; sec=13; ms=78;]

=====

Reviewer Comments:

<210> 1

<211> 20

<212> PRT

<213> Artifical Sequence

Per the above, please explain "Artificial" in sequence id# 1.

<210> 17

<211> 179

<212> PRT

<213> Artifical Sequence

<220>

<223> Description of Artificial Sequence: Note =
Synthetic Construct

<220>

<221> VARIANT

<222> 61, 421, 901, 1021 1381

<223> Xaa = Any Amino Acid

The above "Xaa" locations are invalid for sequence id# 17, there are only 179 amino acids appearing in the sequence. Please explain "Xaa" locations that are appearing in the sequence.

Application No: 10567938 Version No: 3.0

Input Set:**Output Set:**

Started: 2008-10-06 16:50:15.032
Finished: 2008-10-06 16:50:22.814
Elapsed: 0 hr(s) 0 min(s) 7 sec(s) 782 ms
Total Warnings: 17
Total Errors: 65
No. of SeqIDs Defined: 17
Actual SeqID Count: 17

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 402	Undefined organism found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (8)
W 402	Undefined organism found in <213> in SEQ ID (9)
W 402	Undefined organism found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (11)
W 402	Undefined organism found in <213> in SEQ ID (12)
W 402	Undefined organism found in <213> in SEQ ID (13)
W 402	Undefined organism found in <213> in SEQ ID (14)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (16)
W 402	Undefined organism found in <213> in SEQ ID (17)
E 341	'Xaa' position not defined SEQID (17) POS (1)
E 341	'Xaa' position not defined SEQID (17) POS (2)
E 341	'Xaa' position not defined SEQID (17) POS (4)

Input Set:

Output Set:

Started: 2008-10-06 16:50:15.032

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Total Warnings: 17

Total Errors: 65

No. of SeqIDs Defined: 17

Actual SeqID Count: 17

Error code	Error Description
E 341	'Xaa' position not defined SEQID (17) POS (5)
E 341	'Xaa' position not defined SEQID (17) POS (7)
E 341	'Xaa' position not defined SEQID (17) POS (9)
E 341	'Xaa' position not defined SEQID (17) POS (12)
E 341	'Xaa' position not defined SEQID (17) POS (13)
E 341	'Xaa' position not defined SEQID (17) POS (14)
E 341	'Xaa' position not defined SEQID (17) POS (15)
E 341	'Xaa' position not defined SEQID (17) POS (16)
E 341	'Xaa' position not defined SEQID (17) POS (18)
E 341	'Xaa' position not defined SEQID (17) POS (19)
E 341	'Xaa' position not defined SEQID (17) POS (20)
E 341	'Xaa' position not defined SEQID (17) POS (22)
E 341	'Xaa' position not defined SEQID (17) POS (27)
E 341	'Xaa' position not defined SEQID (17) POS (30)
E 341	'Xaa' position not defined SEQID (17) POS (31)
E 341	'Xaa' position not defined SEQID (17) POS (34)
E 341	'Xaa' position not defined SEQID (17) POS (35)

This error has occurred more than 20 times, will not be displayed

<110> PETER S.N. ROWE

<130> 21105.0011U2

<140> 10567938

<141> 2006-07-13

<150> PCT/US04/30530

<151> 2003-09-19

<160> 17

<170> FastSEQ for Windows Version 4.0

 $\langle 210 \rangle$ 1

<211> 20

<212> PRT

<213> Artificial Sequence

 $\langle 400 \rangle$ 1

Pro Arg Asp Asp Ser Ser Glu Ser Ser Asp Ser Gly Ser Ser Ser Glu
1 5 10 15
Ser Asp Gly Asp
20

 $\langle 210 \rangle \quad 2$

<211> 18

<212> PRT

<213> Artificial Sequence

<400> 2

Arg Asp Ser Ser Glu Ser Ser Ser Ser Gly Ser Ser Ser Glu Ser His
1 5 10 15
Gly Asp

 $\langle 210 \rangle$ 3

<211> 18

<212> PRT

<213> Artificial Sequence

$\langle 400 \rangle$ 3

Arg Asp Ser Ser Glu Ser Ser Ser Ser Gly Ser Ser Ser Glu Ser Ser
1 5 10 15
Gly Asp

<210> 4
<211> 19
<212> PRT
<213> Artifical Sequence

<400> 4
Arg Glu Asp Ser Ser Glu Ser Ser Asp Ser Gly Ser Ser Ser Glu Ser
1 5 10 15
Asp Gly Asp

<210> 5
<211> 44
<212> PRT
<213> Artifical Sequence

<400> 5
Asn Lys Gly Met Pro Gln Gly Lys Gly Ser Trp Gly Arg Gln Pro His
1 5 10 15
Ser Asn Arg Arg Phe Ser Ser Arg Arg Arg Asp Asp Ser Ser Glu Ser
20 25 30
Ser Asp Ser Gly Ser Ser Ser Glu Ser Asp Gly Asp
35 40

<210> 6
<211> 44
<212> PRT
<213> Artifical Sequence

<400> 6
Asn Lys Gly Met Ser Gln Arg Arg Gly Ser Trp Pro Ser Arg Arg Pro
1 5 10 15
Asn Ser His Arg Arg Ala Ser Thr Arg Gln Arg Asp Ser Ser Glu Ser
20 25 30
Ser Ser Ser Gly Ser Ser Ser Glu Ser His Gly Asp
35 40

<210> 7
<211> 44
<212> PRT
<213> Artifical Sequence

<400> 7
Asn Arg Gly Met Ser Gln Arg Arg Gly Ser Trp Ala Ser Arg Arg Pro
1 5 10 15
His Pro His Arg Arg Val Ser Thr Arg Gln Arg Asp Ser Ser Glu Ser
20 25 30
Ser Ser Ser Gly Ser Ser Ser Glu Ser Ser Gly Asp
35 40

<210> 8
<211> 39

<212> PRT

<213> Artifical Sequence

<400> 8

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Ser Gln Ser Glu Glu Ser His Ser Glu Glu Asp Asp Ser Asp Ser Gln
 1              5              10              15
Asp Ser Ser Arg Ser Lys Glu Asp Ser Asn Ser Thr Glu Ser Lys Ser
      20              25              30
Ser Ser Glu Glu Asp Gly Gln
      35
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<210> 9

<211> 40

<212> PRT

<213> Artifical Sequence

<400> 9

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Pro Gln Gly Lys Gly Ser Trp Gly Arg Gln Pro His Ser Asn Arg Arg
 1              5              10              15
Phe Ser Ser Lys Arg Arg Asp Asp Ser Ser Glu Ser Ser Asp Ser Gly
      20              25              30
Ser Ser Ser Glu Ser Asp Gly Asp
      35              40
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<210> 10

<211> 41

<212> PRT

<213> Artifical Sequence

<400> 10

```
Ser Gln Arg Arg Gly Ser Trp Pro Ser Arg Arg Pro Asn Ser His Arg
 1              5              10              15
Arg Ala Ser Thr Arg Arg Gln Arg Asp Ser Ser Glu Ser Ser Ser Ser
      20              25              30
Gly Ser Ser Ser Glu Ser His Gly Asp
      35              40
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<210> 11

<211> 40

<212> PRT

<213> Artifical Sequence

<400> 11

```
Ser Gln Arg Arg Gly Ser Trp Ala Ser Arg Arg Pro His Pro His Arg
 1              5              10              15
Arg Val Ser Thr Arg Gln Arg Asp Ser Ser Glu Ser Ser Ser Ser Gly
      20              25              30
Ser Ser Ser Glu Ser Ser Gly Asp
      35              40
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<210> 12

<211> 36

<212> PRT

<213> Artifical Sequence

<400> 12

Met Lys Phe Leu Val Phe Ala Phe Ile Leu Ala Leu Met Val Ser Met
1 5 10 15
Ile Gly Ala Asp Ser Ser Glu Glu Lys Phe Leu Arg Arg Ile Gly Arg
20 25 30
Phe Gly Tyr Gly
35

<210> 13

<211> 180

<212> PRT

<213> Artifical Sequence

<400> 13

Gln Thr Gly Phe Ala Gly Pro Ser Glu Ala Glu Ser Thr His Leu Asp
1 5 10 15
Thr Lys Lys Pro Gly Tyr Asn Glu Ile Pro Glu Arg Glu Glu Asn Gly
20 25 30
Gly Asn Thr Ile Gly Thr Arg Asp Glu Thr Ala Lys Phe Ala Asp Ala
35 40 45
Val Asp Val Ser Leu Val Glu Gly Ser Asn Asp Ile Met Gly Ser Thr
50 55 60
Asn Phe Lys Glu Leu Pro Gly Arg Glu Gly Asn Arg Val Asp Ala Gly
65 70 75 80
Ser Gln Asn Ala His Gln Gly Lys Val Glu Glu His Tyr Pro Pro Ala
85 90 95
Pro Ser Lys Glu Lys Arg Lys Glu Gly Ser Ser Asp Ala Ala Glu Ser
100 105 110
Thr Asn Tyr Asn Glu Ile Pro Lys Asn Gly Lys Gly Ser Thr Arg Lys
115 120 125
Gly Val Asp His Ser Asn Arg Asn Gln Ala Thr Leu Asn Glu Lys Gln
130 135 140
Arg Phe Pro Ser Lys Gly Lys Ser Gln Gly Leu Pro Ile Pro Ser Arg
145 150 155 160
Gly Leu Asp Asn Glu Ile Lys Asn Leu Met Asp Ser Phe Asn Gly Pro
165 170 175
Ser His Glu Asn
180

<210> 14

<211> 180

<212> PRT

<213> Artifical Sequence

<400> 14

Gln Thr Gly Phe Ala Gly Pro Ser Glu Ala Glu Ser Thr Asn Leu Asp
1 5 10 15
Ile Lys Phe Pro Gly Tyr Asn Phe Ile Pro Phe Arg Lys Phe Asn Gly
20 25 30
Gly Asn Thr Ile Gly Thr Gly Asp Glu Thr Ala Lys Ile Phe Ala Asp
35 40 45
Ala Val Asp Val Ser Leu Val Glu Gly Asn Asn Asp Ile Met Gly Ser
50 55 60

Thr	Asn	Phe	Lys	Glu	Leu	Pro	Gly	Arg	Glu	Gly	Asn	Arg	Val	Asp	Val
65					70					75					80
Gly	Gly	Gln	Asn	Ala	His	Gln	Gly	Lys	Val	Glu	Phe	His	Tyr	Pro	Pro
			85						90					95	
Ala	Pro	Ser	Lys	Glu	Lys	Arg	Lys	Glu	Gly	Ser	Ser	Asp	Ala	Thr	Glu
			100					105					110		
Ser	Thr	Asn	Tyr	Asn	Glu	Ile	Pro	Lys	Asn	Asp	Lys	Gly	Ser	Ala	Arg
		115					120					125			
Lys	Gly	Val	Asp	Asp	Ser	Asn	Arg	Asn	Gln	Ala	Ile	Leu	His	Glu	Lys
		130				135					140				
Gln	Arg	Phe	Pro	Ser	Lys	Gly	Lys	Ser	Gln	Gly	Leu	Pro	Ile	Pro	Ser
145					150					155					160
Arg	Gly	Leu	Asp	Asn	Glu	Ile	Lys	Thr	Glu	Met	Asp	Ser	Leu	Asn	Gly
				165					170					175	
Pro	Ser	Asn	Glu												
			180												

<210> 15
 <211> 169
 <212> PRT
 <213> Artifical Sequence

Arg	Pro	Leu	Ser	Gly	Ser	Ser	Lys	Ala	Glu	Val	Ile	Asp	Pro	His	Met
1				5					10					15	
Ser	Gly	Leu	Gly	Ser	Asn	Glu	Ile	Pro	Gly	Arg	Glu	Gly	His	Gly	Gly
			20					25					30		
Ser	Ala	Tyr	Ala	Thr	Arg	Asp	Lys	Ala	Ala	Gln	Gly	Ala	Gly	Ser	Ala
		35					40					45			
Gly	Gly	Ser	Leu	Val	Gly	Gly	Ser	Asn	Glu	Ile	Ile	Gly	Ser	Thr	Asn
		50				55					60				
Phe	Arg	Glu	Leu	Pro	Gly	Lys	Glu	Gly	Asn	Arg	Ile	Asn	Ala	Gly	Ser
65					70					75					80
Gln	Asn	Ala	His	Gln	Gly	Lys	Val	Glu	Phe	His	Tyr	Pro	Gln	Val	Ala
			85						90					95	
Ser	Arg	Glu	Lys	Val	Lys	Gly	Gly	Val	Glu	His	Ala	Gly	Arg	Ala	Gly
			100					105					110		
Tyr	Asn	Glu	Ile	Pro	Lys	Ser	Ser	Lys	Gly	Ser	Ser	Ser	Lys	Asp	Ala
		115					120					125			
Glu	Glu	Ser	Lys	Gly	Asn	Gln	Leu	Thr	Leu	Thr	Ala	Ser	Gln	Arg	Phe
		130				135					140				
Pro	Gly	Lys	Gly	Lys	Ser	Gln	Gly	Pro	Ala	Leu	Pro	Ser	His	Ser	Leu
145					150					155					160
Ser	Asn	Glu	Val	Lys	Ser	Glu	Glu	Asn							
				165											

<210> 16
 <211> 169
 <212> PRT
 <213> Artifical Sequence

Arg	Pro	Leu	Ser	Gly	Ser	Ser	Lys	Ala	Glu	Val	Ile	Asp	Pro	His	Met
1				5					10					15	
Ser	Gly	Leu	Gly	Ser	Asn	Glu	Ile	Pro	Gly	Arg	Glu	Gly	His	Gly	Gly

	20		25		30										
Ser	Ala	Tyr	Ala	Thr	Arg	Asp	Lys	Ala	Ala	Gln	Gly	Ala	Gly	Ser	Ala
	35		40		45										
Gly	Gly	Ser	Leu	Val	Gly	Gly	Ser	Asn	Glu	Ile	Ile	Gly	Ser	Thr	Asn
	50		55		60										
Phe	Arg	Glu	Leu	Pro	Gly	Lys	Glu	Gly	Asn	Arg	Ile	Asn	Ala	Gly	Ser
65			70		75				80						
Gln	Asn	Ala	His	Gln	Gly	Lys	Val	Glu	Phe	His	Tyr	Pro	Gln	Val	Ala
	85		90		95										
Ser	Arg	Glu	Lys	Val	Lys	Gly	Gly	Val	Glu	His	Ala	Gly	Arg	Ala	Gly
	100		105		110										
Tyr	Asn	Glu	Ile	Pro	Lys	Ser	Ser	Lys	Gly	Ser	Ser	Ser	Lys	Asp	Ala
	115		120		125										
Glu	Glu	Ser	Lys	Gly	Asn	Gln	Leu	Thr	Leu	Thr	Ala	Ser	Gln	Arg	Phe
	130		135		140										
Pro	Gly	Lys	Gly	Lys	Ser	Gln	Gly	Pro	Ala	Leu	Pro	Ser	His	Ser	Leu
145			150		155				160						
Ser	Asn	Glu	Val	Lys	Ser	Glu	Glu	Asn							
	165														

<210> 17

<211> 179

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Note =
Synthetic Construct

<220>

<221> VARIANT

<222> 61, 421, 901, 1021 1381

<223> Xaa = Any Amino Acid

<400> 17

Xaa	Xaa	Gly	Xaa	Xaa	Gly	Xaa	Ser	Xaa	Ala	Glu	Xaa	Xaa	Xaa	Xaa	Xaa
1			5					10					15		
Ile	Xaa	Xaa	Xaa	Gly	Xaa	Asn	Glu	Ile	Pro	Xaa	Arg	Glu	Xaa	Xaa	Gly
		20				25						30			
Gly	Xaa	Xaa	Xaa	Xaa	Thr	Arg	Asp	Xaa	Thr	Ala	Xaa	Xaa	Ala	Xaa	Xaa
	35		40		45										
Xaa	Val	Ser	Leu	Val	Glu	Gly	Xaa	Asn	Xaa	Ile	Xaa	Gly	Ser	Ile	Asn
50			55		60										
Phe	Xaa	Leu	Leu	Pro	Gly	Xaa	Glu	Gly	Asn	Arg	Val	Asp	Asp	Gly	Ser
65			70		75				80						
Gln	Asn	Ala	His	Gln	Gly	Lys	Val	Phe	Phe	His	Tyr	Pro	Xaa	Ala	Pro
	85		90		95										
Ser	Lys	Glu	Lys	Xaa	Lys	Xaa	Gly	Ser	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
	100		105		110										
Xaa	Tyr	Asn	Glu	Ile	Pro	Lys	Xaa	Xaa	Lys	Gly	Ser	Xaa	Xaa	Lys	Xaa
	115		120		125										
Xaa	Xaa	Xaa	Ser	Xaa	Xaa	Asn	Gln	Xaa	Thr	Leu	Xaa	Glu	Xaa	Gln	Arg
	130		135		140										
Phe	Pro	Xaa	Lys	Gly	Lys	Ser	Gln	Gly	Ile	Pro	Ile	Pro	Ser	Xaa	Xaa
145			150		155				160						
Leu	Xaa	Asn	Glu	Xaa	Lys	Xaa	Glu	Xaa	Asp	Ser	Xaa	Asn	Gly	Pro	Ser

Xaa Glu Asn

165

170

175